Index of Claims



Application/Control No.

10/085,165

Examiner

Tadesse Hailu

Reexamination

Applicant(s)/Patent under

YAMAGUCHI ET AL.

Art Unit

2173

√ Rejected
= Allowed

(Through numeral)
Cancelled

Restricted

Non-Elected

I Interference

A Appeal
O Objected

| Claim [  |          |          |   |         | Date   |        |                |              |          |      | Cla           | Date     |          |                         |              |          |                 | ]         |          | laim  | Date          |            |                 |         |        |           |              |                 |          |          |
|----------|----------|----------|---|---------|--------|--------|----------------|--------------|----------|------|---------------|----------|----------|-------------------------|--------------|----------|-----------------|-----------|----------|-------|---------------|------------|-----------------|---------|--------|-----------|--------------|-----------------|----------|----------|
|          | ল        | _<br>ا   |   |         |        |        |                | T            | 7        | ľ    |               |          |          |                         |              |          |                 |           |          | 7     |               |            |                 |         |        |           |              | П               |          |          |
| Final    | Original | 7/1/05   |   |         |        |        |                |              |          |      | Final         | Original | •        |                         |              |          |                 |           |          |       | Final         | Original   |                 |         |        |           |              |                 |          |          |
|          | 1        | 1        | $\dashv$  | 1       |        | 十      | 1 1            | 7            | 7        | ı    |               | 51       | П        | _                       |              | +-       | $\vdash$        | 1         |          | -     | _             | 101        |                 | +       | ┿      | +         | <del> </del> | H               | $\dashv$ | _        |
|          | 2        | 1        |   | T       |        | ✝      |                |              | ١        | ı    |               | 52       | П        | 十                       | $\top$       | +-       | H               | Ì         | $\neg$   | -     |               | 102        | t               | ╅       | +      | ╁         | ╁╌           | $\vdash$        | $\dashv$ |          |
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|          | 4        | 1        |   |         |        | Τ      |                |              | 7        |      |               | 54       |          |                         |              | 1        |                 | $\neg$    | _        | 7     |               | 104        | 1 1             |         | +      | 1         | T            |                 | $\neg$   | _        |
|          | 5        | 1        |   |         |        |        |                |              |          |      |               | 55       |          |                         | _            |          |                 |           |          | 7     | $\vdash$      | 105        | $\Box$          | 1       | +-     | $\top$    | T            |                 | ┪        | _        |
|          | 6        | 0        |   |         |        |        |                |              |          |      |               | 56       |          |                         |              |          |                 | $\exists$ |          | 7     | $\overline{}$ | 106        |                 |         | †      | 1-        | 1            |                 | 一        | _        |
|          | 7        | 1        |   | $\perp$ |        |        |                |              |          |      |               | 57       |          |                         |              |          |                 |           |          | 7     |               | 107        |                 |         | 1      |           |              |                 |          |          |
| <u> </u> | 8        | 1        |   |         | ┸      |        |                |              |          |      |               | 58       |          |                         |              |          |                 | $\Box$    |          |       |               | 108        |                 |         | $\top$ | Τ         |              |                 | $\neg$   |          |
|          | 9        | ٧        |   |         |        |        |                |              | _        |      |               | 59       |          |                         |              | $\perp$  |                 |           |          |       |               | 109        |                 |         |        |           | Г            |                 | $\neg$   |          |
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| <u> </u> | 12       | <b>√</b> | $\perp$   | _       | 1_     | 1      | $\sqcup$       | _ _          | _        | iil. |               | 62       | Ш        |                         |              |          | Ш               | _         |          | _     |               | 112        |                 | $\perp$ |        |           |              |                 |          | _        |
| <u> </u> | 13       | 0        | $\perp$   | +       | _      | 1      |                | 4            | _        | ii.  |               | 63       |          | _                       |              |          | $\sqcup$        | $\perp$   |          | J     |               | 113        |                 | $\perp$ |        |           |              | $\Box$          |          |          |
|          | 14       | 1        | $\dashv$  |         | 4      | 4      | <b></b>        |              | 4        |      |               | 64       |          | _                       |              |          |                 | _         |          | _     |               | 114        | $\sqcup$        | $\perp$ |        | <u> </u>  |              | $\Box$          |          |          |
|          | 15       | 1        | $\dashv$  | -       | -      | 1      |                |              | -1       |      |               | 65       |          | _                       | $\bot$       | <u> </u> | $\sqcup$        |           | $\perp$  | 4     |               | 115        | $\perp$         | $\bot$  |        | _         |              | $\sqcup$        | _        |          |
|          | 16       | 7        | -   |         |        | _      | $\vdash$       |              | -4       |      |               | 66       |          | -                       | _            | _        | $\sqcup$        | _         |          | 4     |               | 116        | $\vdash$        | $\perp$ | 4_     | _         | $oxed{oxed}$ | $\sqcup$        | _        |          |
|          | 17       | 0        | -   | -       |        | +      | $\sqcup$       |              | 4        | 1    |               | 67       | $\sqcup$ | _                       | _            |          | $\sqcup$        | _         |          | 4     |               | 117        |                 | $\perp$ |        | _         |              | $\sqcup$        | _        |          |
| <u> </u> | 18       |          |   | +       | +-     | +-     | $\vdash$       |              | -4::     | -    |               | 68       | $\sqcup$ | $\dashv$                |              | _        | $\sqcup$        |           |          | 4     | _             | 118        | <b> </b>        | _       |        | ļ         | <u> </u>     | $\sqcup$        |          |          |
| <u> </u> | 19       |          |   | -       | +-     | +-     | $\sqcup$       | -+           | -        | -    |               | 69       |          | 4                       |              | -        | Ш               | _         |          | 4     |               | 119        | Щ.              | _       |        | ļ         |              | $\sqcup$        | _        |          |
|          | 20<br>21 |          |   |         | +      | ┼      | $\vdash$       | +            | -        | -    |               | 70       | -        | +                       | +            | +        |                 |           |          | 4     |               | 120        | ₩.              | _       |        | _         | _            | $\vdash$        | _        |          |
| $\vdash$ | 22       |          |   | +       | +      | ┿      | ╌              | +            | -        | -    |               | 71       | $\vdash$ | $\dashv$                | +            | +-       | -               | -         |          | 4     |               | 121        | $\vdash \vdash$ | +       | _      | _         | _            | $\vdash \vdash$ | _        | _        |
| $\vdash$ | 23       |          | $\dashv$  | ┿       | +      | ╫┈     | $\vdash$       | +            | -        | -    |               | 72       |          | +                       |              | ┼        | $\vdash$        | $\dashv$  |          | 4     |               | 122        | $\vdash$        | 4       | _      | -         |              | $\vdash$        | $\dashv$ |          |
| $\vdash$ | 24       | -        | $\dashv$  |         | ╫      | +      | $\vdash$       | +            | - ::     | 1    |               | 73<br>74 | -+       | $\dashv$                |              | -        | $\vdash$        | +         |          | -     |               | 123        | $\vdash$        | -       | +      | -         | _            | $\vdash$        | 4        |          |
|          | 25       |          |   |         | +      | ╁      | <del>   </del> | +            | -        | ŀ    |               | 75       | -1       | +                       |              | +-       | $\vdash$        |           |          | -     | _             | 124        |                 | +       |        | ┼         | $\vdash$     | $\vdash \vdash$ | 4        |          |
| <u> </u> | 26       | -        |   |         | +-     | ┿      | $\vdash$       | -            | -        | ŀ    |               | 76       | $\vdash$ | +                       | - -          | -        | $\vdash$        |           | +        | -     |               | 125        | ┝               | +       | 4-     | ┡         | $\vdash$     | $\vdash$        | -        | _        |
|          | 27       | $\dashv$ |   | +       |        | ╁      | $\vdash$       | +            | $\dashv$ | ŀ    |               | 77       | $\dashv$ |                         | +            | +        | $\vdash$        |           | +        | -     |               | 126        | -               | +       | +      | ↓         | -            | $\vdash$        | $\dashv$ |          |
|          | 28       | $\dashv$ | -   | +       | +      | +-     | $\vdash$       |              | -        | ŀ    | $\dashv$      | 78       | $\vdash$ | +                       | - -          | ╁        | $\vdash$        | -+        | +        | -     |               | 127        |                 |         | +      | $\vdash$  | Н            | $\vdash$        | _        |          |
|          | 29       | $\dashv$ |   | +       | +-     | ╁      | H              |              | - ::     | ŀ    | $\rightarrow$ | 79       | $\dashv$ | +                       | +-           | ╁        | $\vdash$        | -+        | +        | -     |               | 128<br>129 | $\vdash$        | +       | ┿      | ┼         | ⊢            | -               | -1       |          |
|          | 30       |          | -   | +       | +      | ╁      | $\vdash$       | $\dashv$     | -        | ŀ    |               | 80       | $\dashv$ | $\dashv$                |              | +        | $\vdash \dashv$ | $\dashv$  | +-       | -     |               | 130        |                 | +       | +-     | +-        | $\vdash$     | ╁─┼             | $\dashv$ |          |
|          | 31       |          |   | +       | ╁      | +      | <del>   </del> |              | -        | -    |               | 81       | $\dashv$ | +                       | -            | +        | ┤┤              | +         |          | -     |               | 131        | -               | +       | +      | ╄         |              | <del></del>     | $\dashv$ |          |
|          | 32       | $\dashv$ | _   | +       | ┰      | +      |                |              | $\dashv$ | -    |               | 82       | -        | -+                      | $\pm$        | +        |                 | +         |          | -     |               | 132        |                 | - -     | +      | +-        | ╌            | -               | $\dashv$ |          |
|          | 33       |          | _   | $\top$  | +-     | +      | 1 1            |              | -        | H    |               | 83       | $\dashv$ | +                       | +            | +-       |                 | +         |          | -     |               | 133        | -               | ┰       | +      | ╁╌        | Н            | $\vdash$        | $\dashv$ | _        |
|          | 34       |          | -   | 1       | +-     | †      |                |              | -        | -    |               | 84       |          |                         | +            | $\vdash$ |                 | +         | +        | ┧᠁    |               | 134        | <del>   -</del> | +       | +      | ╁╌        | Н            | $\vdash$        | $\dashv$ | -        |
| -        | 35       |          | 1   | 1       | 1      | $\top$ |                | 1            | -        | -    |               | 85       |          | +                       | $\dashv$     | -        |                 | $\dashv$  | +        | 1     |               | 135        | -               | +-      | +      | ╁╾        | $\vdash$     | $\vdash$        | +        | _        |
|          | 36       |          |   |         |        | ✝      |                |              |          | -    |               | 86       |          | 十                       | _            | +        |                 | $\dashv$  | $\top$   | 1     |               | 136        |                 | +       | +      | ╁╾        |              | $\vdash$        | $\dashv$ | _        |
|          | 37       |          |   |         | 1      |        |                | _            | 7::      | ŀ    |               | 87       | $\dashv$ | 十                       | +            | +-       |                 | $\dashv$  | $\vdash$ | 1     |               | 137        | -               | +       | ╁╌     | ╁         | Н            | _               | $\dashv$ | _        |
|          | 38       |          | $\neg$  | T       |        |        |                |              |          | -    |               | 88       | $\vdash$ | 十                       | +            | †        | $\vdash$        | $\neg +$  | +        | 1     |               | 138        | -               | ╅       | +-     | $\vdash$  | Н            | -+              | $\dashv$ | _        |
|          | 39       | $\neg$   | $\dashv$  | Ť       | T      | Τ      |                | $\top$       |          | ŀ    |               | 89       | 7        | 7                       | $\top$       | T        | $\vdash$        | 7         | $\neg$   |       |               | 139        | $\vdash$        | +       | +      | +         |              | $\dashv$        | $\dashv$ | _        |
|          | 40       |          | $\top$  | 1       | 1      |        |                | $\top$       | 7        | r    |               | 90       | $\dashv$ | $\top$                  | +            | T        | $\vdash$        | 7         | _        | 1     |               | 140        |                 | +       | +      | t         | H            | _               | $\dashv$ | $\dashv$ |
|          | 41       | $\neg$   | 一   | $\top$  | 1      |        |                | $\top$       | 7        | ŀ    | $\neg$        | 91       | $\neg$   | +                       | +            | T        |                 | $\dashv$  | $\top$   | 1     |               | 141        | $\vdash$        | +       | +      | $\vdash$  | H            | +               | $\dashv$ | _        |
|          | 42       |          |   |         |        |        |                |              | 7        | ľ    | 一丁            | 92       | $\dashv$ | $\top$                  |              | 1        | $\Box$          | $\top$    | $\top$   | 1     |               | 142        | $\vdash$        | +       | $\top$ | $t^{-}$   | $\Box$       | $\dashv$        | $\dashv$ | $\dashv$ |
|          | 43       |          |   |         | Ι      |        |                |              |          | ľ    |               | 93       | $\neg$   | $\top$                  | $\top$       | 1        |                 | 7         | $\top$   | 1:::: |               | 143        | $\Box$          | +       | †      | T         | H            | 寸               | $\dashv$ | _        |
|          | 44       |          | $\Box$  | Ι       | I      |        |                |              |          |      |               | 94       |          | T                       | 1.           | 1        | $\Box$          | $\top$    | 1        | 1     |               | 144        |                 | +       | $\top$ | 1         | П            | $\dashv$        | $\dashv$ | $\neg$   |
|          | 45       |          | $oldsymbol{ol}}}}}}}}}}}}}}}$ | $\perp$ |        |        |                | 1            |          |      |               | 95       |          |                         |              |          |                 | $\neg$    |          | 1     |               | 145        |                 | 1       | $\top$ |           | $\Box$       | $\top$          | $\dashv$ | T        |
|          | 46       |          |   |         |        |        |                | floor        |          | 1    |               | 96       |          |                         | 1.           |          |                 | $\top$    |          | 1     |               | 146        |                 | $\top$  | 1      | Г         | $\Box$       | $\top$          | $\dashv$ | $\dashv$ |
|          | 47       |          | $oldsymbol{\bot}$   | ·L      |        |        |                | $oxed{oxed}$ |          | #[   |               | 97       |          |                         |              |          |                 |           |          | 1:::: |               | 147        |                 | T       | 1      |           | М            | $\dashv$        | $\dashv$ | $\neg$   |
|          | 48       |          | $\bot$  |         | L      |        | LĪ             | $oxed{\Box}$ |          | #[   |               | 98       |          | floor                   | Ι            | Γ        |                 | $\Box$    | T        |       |               | 148        |                 | $\top$  | 1      |           |              | $\top$          | $\dashv$ | ┪        |
|          | 49       | _        | $\bot$  |         | L      |        |                | $\perp$      |          | #[   |               | 99       |          | $oldsymbol{\mathbb{T}}$ | $\mathbf{I}$ |          |                 |           |          | ]     |               | 149        |                 |         |        |           | $\Box$       | $\neg$          | $\dashv$ | $\dashv$ |
|          | 50       |          |   |         |        |        |                |              | _[:::    | ::[  |               | 100      |          | T                       |              |          |                 |           |          | ]     |               | 150        |                 | T       | T      | Π         |              | $\neg$          | $\top$   | ┪        |